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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/622,268 | 07/17/2003 | Yuichi Ise | 9475/0M770US0 | 4219 |

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| EXAMINER | |
|---|---|
| DHARIA, PRABODH M | |
| **ART UNIT** | **PAPER NUMBER** |
| 2673 | |

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary | Application No. | Applicant(s) | |
|---|---|---|---|
| | 10/622,268 | ISE ET AL. | |
| | Examiner | Art Unit | |
| | Prabodh M. Dharia | 2673 | |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1)☒ Responsive to communication(s) filed on *17 July 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4)☒ Claim(s) *1-4* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1 and 2* is/are rejected.

7)☒ Claim(s) *3 and 4* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

**Application Papers**

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *17 July 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *02-15-05*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1,2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kambara et al. (6,091,406) in view of Saijo Masaru et al. (JP 11-086698).

Regarding Claim 1, Kambara et al. teaches a pointing input device (Col. 21, Lines 33-35) comprising: a display panel for displaying (Col. 21, Lines 46-50, 30-32) any pointing input information on a display area thereof (Col. 19, Lines 45-51); a transparent protective plate laminated on the display area of the display panel (Col. 20, Lines 26-29, Col. 21, Line 60 to Col. 22, Line 12, Col. 28, lines 56-65); a piezoelectric substrate attached to the transparent protective plate, for converting deformation (Col. 20, Lines 26-29, Col. 21, Line 60 to Col. 22, Line 12, Col. 28, lines 56-65); caused by a push against the transparent protective plate into an electric signal (Col. 20, Lines 2-10); and outputting the electric signal (Col. 20, Lines 2-10); and the pointing input device (Col. 21, Lines 33-35) outputting push detection data together with the pointing position data (Col. 19, line 61 to Col. 20, Line 10), when the electric signal is outputted from the piezoelectric substrate (Col. 19, Line 61 to Col. 20, Line 10) and the push against the transparent protective plate (Col. 20, Lines 26-29, Lines 2-10, Col. 21, Line 60 to Col. 22, Line

12, Col. 28, lines 56-65); is judged while the optical touch panel is detecting the pointing input (Col. 19, Line 19 to Col. 20, Line 10).

Kambara et al. fails to teach an optical touch panel disposed on the transparent protective plate, for emitting light beams for reticulately scanning an input operation area of the optical touch panel along orthogonal X and Y directions to detect a pointing input and a pointing input position in the input operation area when the light beams are intercepted by the pointing input, a display area of the input operation area being visible through the transparent protective plate; the pointing input device outputting pointing position data indicating the pointing input position, while the optical touch panel detects the pointing input.

However, Saijo et al. teaches an optical touch panel (paragraph 1) disposed on the transparent protective plate (page 5, paragraphs 11-14), for emitting light beams for reticulately scanning an input operation area of the optical touch panel along orthogonal X and Y directions to detect a pointing input (page 5, paragraph 15) and a pointing input position in the input operation area when the light beams are intercepted by the pointing input (page 5, paragraphs 15,16), a display area of the input operation area being visible through the transparent protective plate (page 5, paragraphs 15, 21-23); the pointing input device outputting pointing position data indicating the pointing input position, while the optical touch panel detects the pointing input (page 5, paragraphs 15, 21-23).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Saijo et al. in Kambara et al. teaching for having an optical touch panel detecting pointing device touch input by the light beams of the X-axila and y-axial optical

axes corresponding to the designation by the finger can be inputted, without being affected by a disturbance.

Regarding Claim 2, Kambara et al. teaches a pointing input device (Col. 21, Lines 33-35) comprising: a display panel for displaying (Col. 21, Lines 46-50, 30-32) any pointing input information on a display area thereof (Col. 19, Lines 45-51); a transparent protective plate laminated on the display area of the display panel (Col. 20, Lines 26-29, Col. 21, Line 60 to Col. 22, Line 12, Col. 28, lines 56-65); a piezoelectric substrate attached to the transparent protective plate, for converting deformation (Col. 20, Lines 26-29, Col. 21, Line 60 to Col. 22, Line 12, Col. 28, lines 56-65); caused by a push against the transparent protective plate into an electric signal (Col. 20, Lines 2-10); and outputting the electric signal (Col. 20, Lines 2-10); and the pointing input device (Col. 21, Lines 33-35) outputting push detection data together with the pointing position data (Col. 19, line 61 to Col. 20, Line 10), when the electric signal is outputted from the piezoelectric substrate (Col. 19, Line 61 to Col. 20, Line 10) and the push against the transparent protective plate (Col. 20, Lines 26-29, Lines 2-10, Col. 21, Line 60 to Col. 22, Line 12, Col. 28, lines 56-65); is judged while the optical touch panel is detecting the pointing input (Col. 19, Line 19 to Col. 20, Line 10).

However, Saijo et al. teaches an optical touch panel (paragraph 1) disposed on the transparent protective plate (page 5, paragraphs 11-14), for emitting light beams for reticulately scanning an input operation area of the optical touch panel along orthogonal X and Y directions to detect a pointing input (page 5, paragraph 15) and a pointing input position in the input operation area when the light beams are intercepted by the pointing input (page 5, paragraphs

15,16), a display area of the input operation area being visible through the transparent protective plate (page 5, paragraphs 15, 21-23); the pointing input device outputting pointing position data indicating the pointing input position, while the optical touch panel detects the pointing input (page 5, paragraphs 15, 21-23).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching of Saijo et al. in Kambara et al. teaching for having an optical touch panel detecting pointing device touch input by the light beams of the X-axila and y-axial optical axes corresponding to the designation by the finger can be inputted, without being affected by a disturbance.

***Allowable Subject Matter***

3. Claims 3,4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The following is an examiner's statement of reasons for allowance:

A pointing input device comprising: a display panel for displaying any pointing input information on a display area thereof; a transparent protective plate laminated on the display area of the display panel; a piezoelectric substrate attached to the transparent protective plate, for converting deformation caused by a push against the transparent protective plate into an electric signal and outputting the electric signal; and **an optical touch panel disposed on the transparent protective plate, for emitting light beams for reticulately scanning an input**

**operation area of the optical touch panel along orthogonal X and Y directions to detect a pointing input and a pointing input position in the input operation area when the light beams are intercepted by the pointing input, a display area of the input operation area being visible through the transparent protective plate; the pointing input device outputting pointing position data indicating the pointing input position, while the optical touch panel detects the pointing input, the pointing input device outputting push detection data together with the pointing position data, when the electric signal is outputted from the piezoelectric substrate and the push against the transparent protective plate is judged while the optical touch panel is detecting the pointing input and the piezoelectric substrate comprises a pair of piezoelectric substrates of narrow and elongated shape, and the piezoelectric substrates are attached to the transparent protective plate and are orthogonal to each other.**

Cited references fail to teach bold and underlined above claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lin, Julius (US 2004/0128012 A1) Virtual workstation.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M. Dharia whose telephone number is 571-272-7668. The examiner can normally be reached on M-F 8AM to 5PM.

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

PD

AU2673

October 17, 2005

VIJAY SHANKAR
PRIMARY EXAMINER